



Energy Management
Radiant Systems

EK0003  MAY2022



KFC-M duct-type fan coil with integrated multizone control

Efficient. Versatile.
Smart.

KFC-M DUCT-TYPE FAN COIL WITH INTEGRATED MULTIZONE CONTROL

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KFC-M IS A HIGHLY EFFICIENT FAN COIL WITH INTEGRATED MULTIZONE CONTROL

Just one single product combined to multiple fans to guarantee a constant air flow rate and well-balanced comfort over time.

As opposed to zonification systems, KFC-M works with a direct flow-rate control in single rooms providing outstanding benefits in terms of efficiency, comfort and quietness.

0-10 V MODULATING CONTROLLED FANS

COOLING POWER UP TO 8 kW

UP TO 100 Pa OF FAN HEAD PRESSURE

FROM 2 TO 5 INDEPENDENT ZONES



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BENEFITS IN A NUTSHELL



EFFICIENT

KFC-M uses dual vacuum centrifugal fans with a high-efficiency BLDC brushless motor. Thanks to the innovative DC INVERTER technology, this fan coil features state-of-the-art stability and very low energy consumptions. In addition, the large heat exchange coil allows to set the ideal temperatures to save energy.



SILENT

Motor control is provided through spot modulation based on the level of comfort required for each zone. Once the temperature has been reached, the centrifugal fan with single-motor rotor gradually and noiselessly slows down to reach the temperature setting.



MODULATED AIR FLOW

No alternation of unpleasant air currents typical of "on-off" units or moments of full stagnation: with KFC-M, air moves efficiently and stealthily.



SUSTAINABLE SYSTEM

One hydronic supply system for all zones. The round delivery outlets and recovery-air plenums make aeraulic connections easier.



DEDICATED COMFORT

KFC-M controls the heating and cooling comfort of every single zone. Comfort diversification in favor of efficiency.



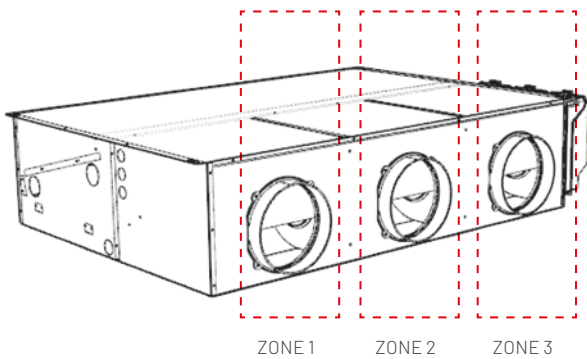
HOME AUTOMATION SOLUTION

KFC-M can be integrated in the most complex and modern home automation control systems.

INTEGRATED MULTIZONE CONTROL

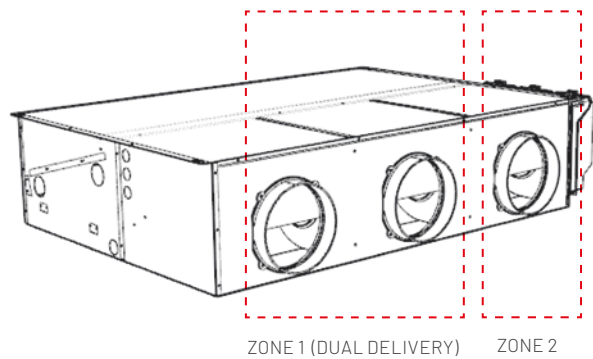
One single product fit for every installation.

INSTALLATION WITH SINGLE OUTLET ZONE



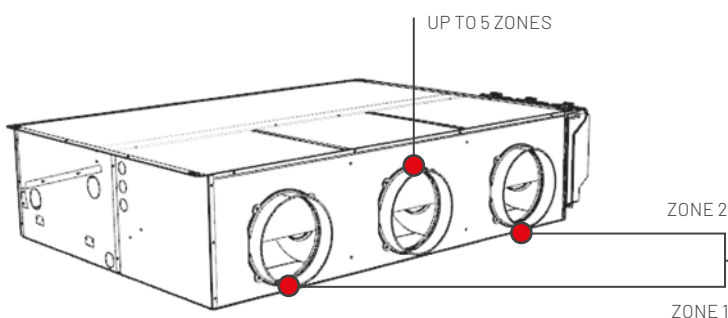
INSTALLATION WITH MULTIPLE OUTLET ZONE

For larger zones where **one single** delivery is not sufficient, **two** outlets are available (dual delivery).



CONTROL MODES

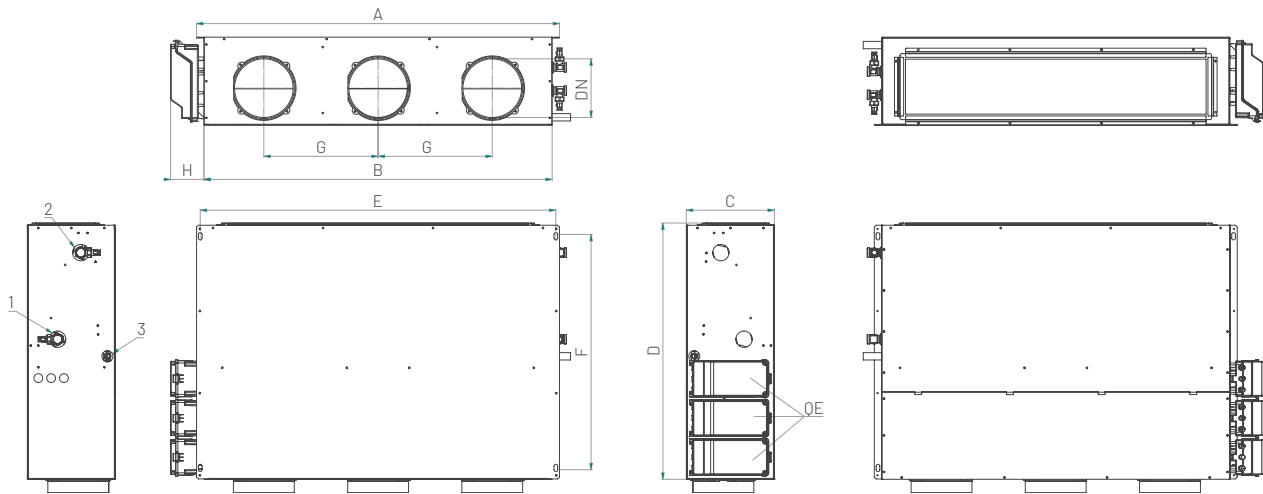
- With 0-10 V modulating control to manage the speed of each zone fan.
- Fan coil control managed by external devices (separately supplied).



- Home automation control system or BMS (Building Management System)
- Room thermostat with 0-10 V control

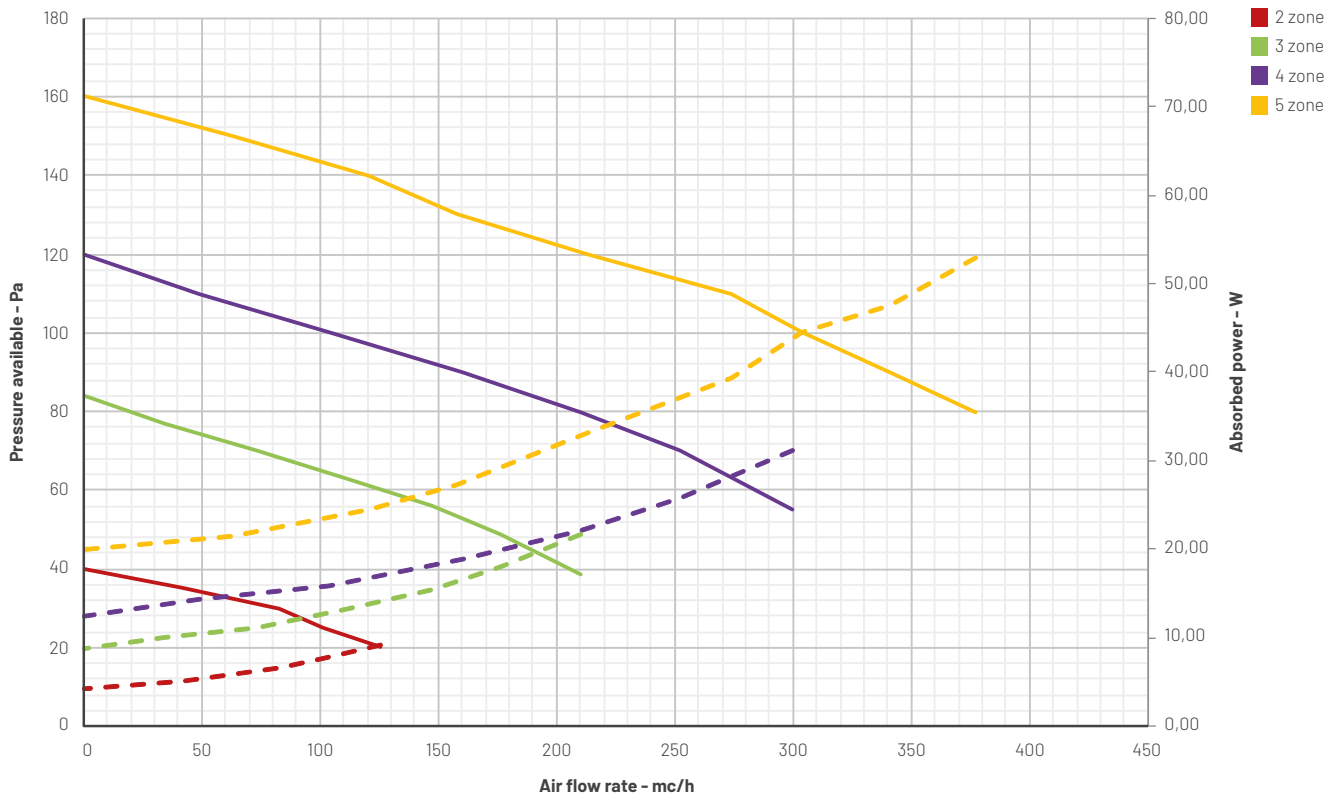
DIMENSIONS

HORIZONTAL INSTALLATION

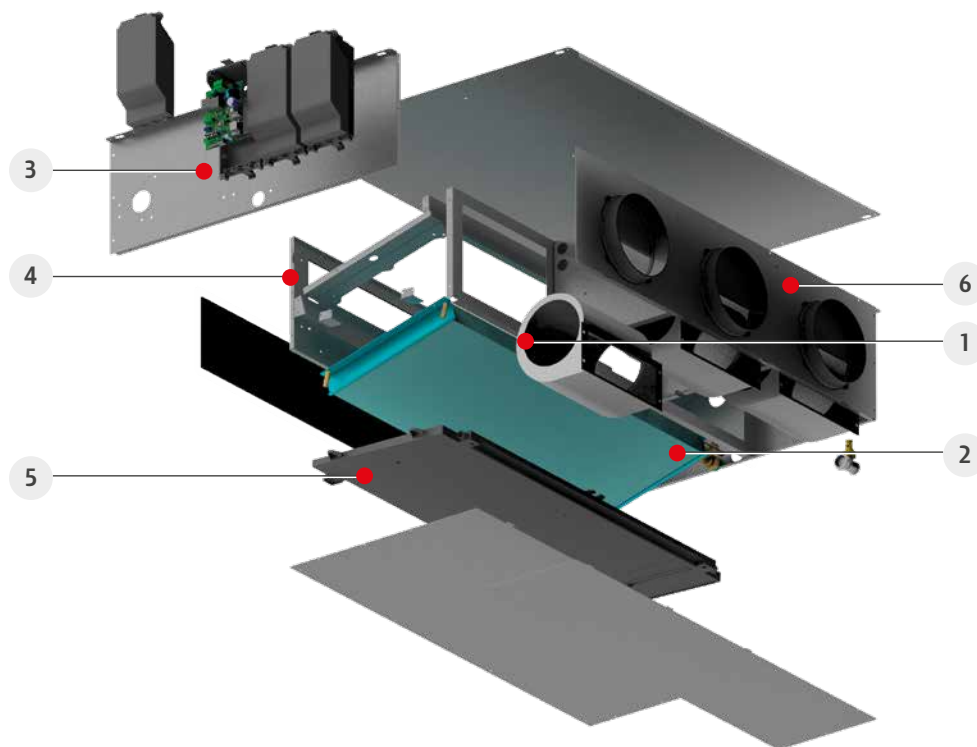


Model		KFCMY206	KFCMY308	KFCMY410	KFCMY512
Width A	mm	790	990	1190	1480
Depth F	mm	690	690	690	690
Height C	mm	240	240	240	240
Delivery diam.	mm	2x160	3x160	4x160	5x160
Recovery wxh	mm	630x150	830x150	1030x150	1320x150
Delivery/return water connections	∅	3/4"	3/4"	3/4"	3/4"
Moisture	∅	16/20 mm	16/20 mm	16/20 mm	16/20 mm
Weight	kg	43	47	56	67

FAN CURVES



MAIN COMPONENTS



1 FANS

The duct-type unit includes single-motor centrifugal fans for every water screw. Low-consumption DC inverter with integrated regulation for well-balanced air flows.

2 HEAT EXCHANGER

Highly efficient water/air heat exchanger in copper-aluminum.

3 ELECTRIC BOARD

Electric board housing the electronic control card separated from the air flow.

4 RECOVERY-AIR FLANGE WITH FILTER

Recovery-air flange for direct recovery or duct-type systems with dedicated plenum accessories.

5 MOISTURE COLLECTION TRAY

Collection of moisture through the plastic tray.

6 OUTLETS

Delivery outlets for convenient installation of the air ducts.

INSTALLATION ACCESSORIES

AIR RETURN PLENUM WITH CIRCULAR INLETS FOR FLEXIBLE DUCTS

KFCPLY012 = 2 inlets DN 160 mm

KFCPLY013 = 3 inlets DN 160 mm

KFCPLY014 = 4 inlets DN 160 mm

KFCPLY015 = 5 inlets DN 160 mm



SPARE FILTER

Class: Coarse



TECHNICAL DATA

Dimension	UNIT	KFCMY206	KFCMY308	KFCMY410	KFCMY512
AEREAULIC DATA					
Max nominal air flow rate	mc/h	600	900	1200	1500
Air flow rate of single fan at max speed	mc/h	300	300	300	300
Air flow rate of single fan at mid speed	mc/h	205	205	205	205
Air flow rate of single fan at min speed	mc/h	60	60	60	60
Available head pressure	Pa	100	100	100	100
Nominal power absorbed by recirculation fan	kW	0,07 x 2	0,07 x 3	0,07 x 4	0,07 x 5

HEATING / COOLING PERFORMANCE DATA					
Total cooling power ¹	kW	3,8	5,5	7,2	8,1
Sensible cooling power ¹	kW	2,7	3,9	5,1	6,1
Water flow rate	mc/h	0,60	0,95	1,2	1,4
Loss of pressure	kPa	29	21	19	11
Max total cooling power for zone	kW	2,1			
Max sensible cooling power for zone	kW	1,5			
Max total heating power ²	kW	3,9	5,7	7,42	9,0
Water flow rate	mc/h	0,61	0,98	1,3	1,57
Loss of pressure	kPa	29	22	21	12
Total heating power for single zone ²	kW	2,2			

ACOUSTIC DATA (according to standard UNI EN 3741 and UNI EN 3744)					
Acoustic power L _w transmitted by structure	dB(A)	60	61	62	64
Acoustic power L _w irradiated inside the duct	dB(A)	65	69	69	71
Average acoustic pressure L _p at 1 Mt	dB(A)	46	48	49	51
Average acoustic pressure L _p at 3 Mt	dB(A)	38	40	41	43

ELECTRIC DATA					
Power supply	V/Ph/Hz	230/1/50			
Max power absorbed	kW	0,19	0,28	0,37	0,46
Max energy absorbed	A	0,7	1,4	2,1	2,8

1 Coil water temperature 7/12 °C, room air temperature 27 °C d.b. and 19 °C w.b. (standard EU 2016/2281)

2 Coil water temperature 45/40 °C, room air temperature 20 °C (standard EU 2016/2281)



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